

100

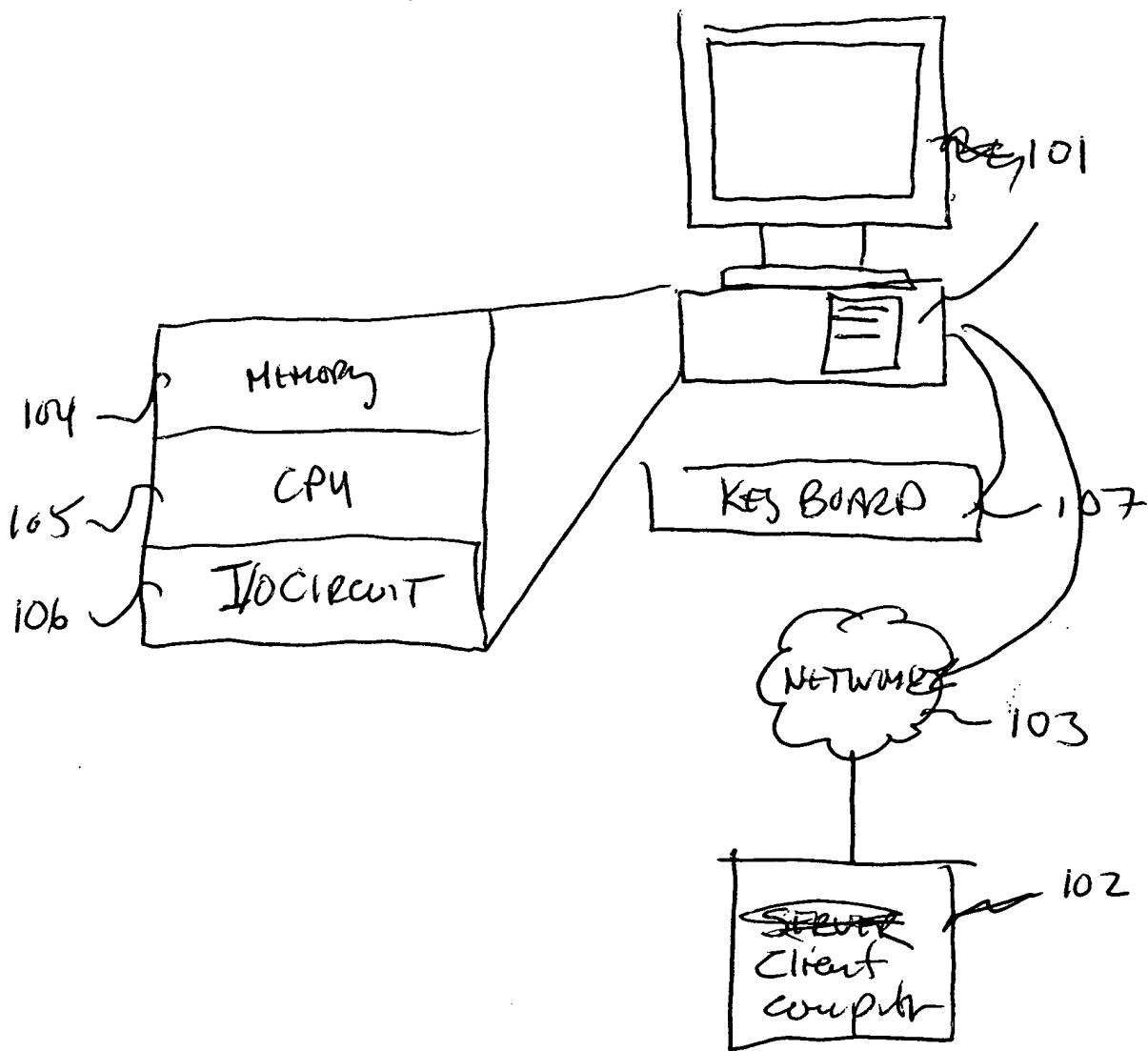


Fig 1

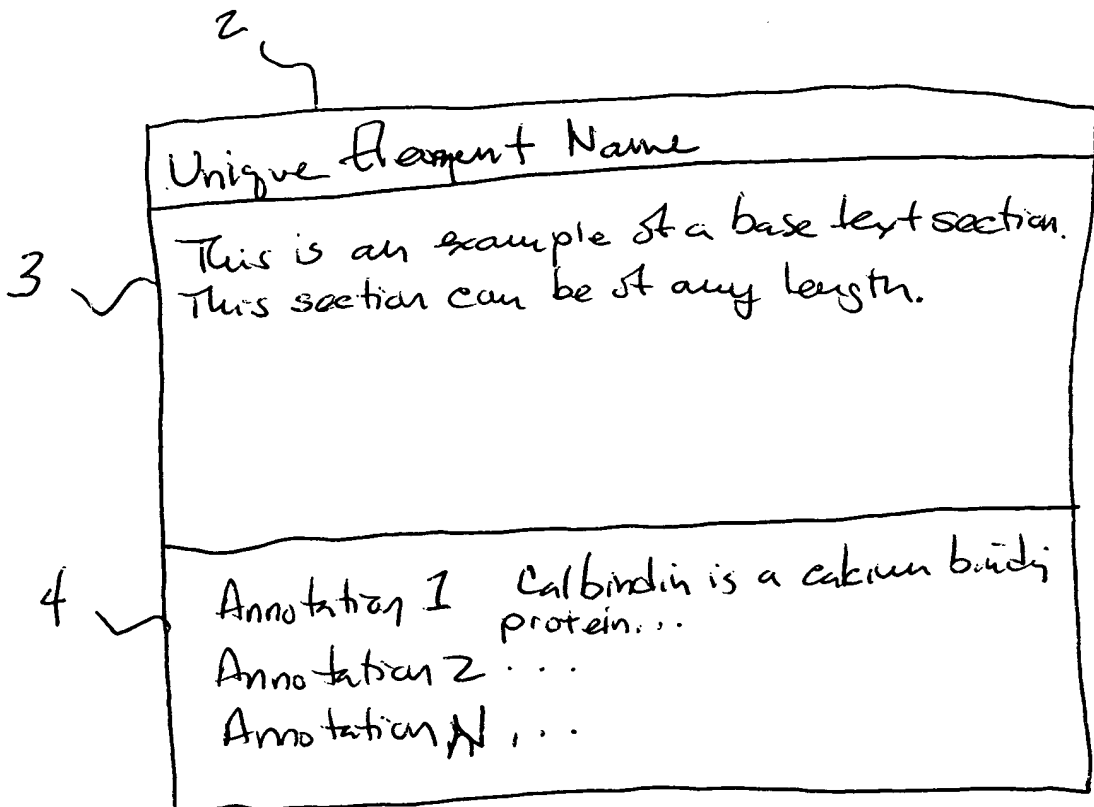


Figure 2

Clone Shopping Cart

Instructions: You may change the quantity of an item in your shopping cart by changing the value in the quantity column. To remove an item, simply enter a quantity of zero. To submit changes to your cart, click the 'Proceed to Checkout' button. When you are satisfied with your cart's contents, click the 'Proceed to Checkout' button.

Quantity	Catalog #	Description	Price
<input type="text" value="1"/>	HORF.01		1,147
Clone ID: IOH10952			
<input type="text" value="1"/>	HORF.01		1,147
Clone ID: IOH14505			
<input type="text" value="1"/>	HORF.01		1,147
Clone ID: IOH10120			
<input type="text" value="1"/>	<u>HORF01</u>	Ultimate™ ORF Clones (Human)	900.0
Clone ID: IOH1903			

Total* 4,341

[Recalculate](#)

[Clear Cart](#)

[Proceed to Checkout](#)

*Note: Account specific pricing, applicable tax, freight, and handling charges will be included in your confirmation.

Figure 3

121 → (A) 120 (B) (C) (D)

Search By ID or Keyword Search By Sequence Browse By Gene Ontology

Select Species: ☐ Human ☐ Mouse

Search By Keyword: Enter Text Below

122 Reset

Select Species: ☐ Human ☐ Mouse

Search By ID: Enter Text Below

123

Upload text file to search

Bro

Number of Results per page 25 Reset

Fig 4

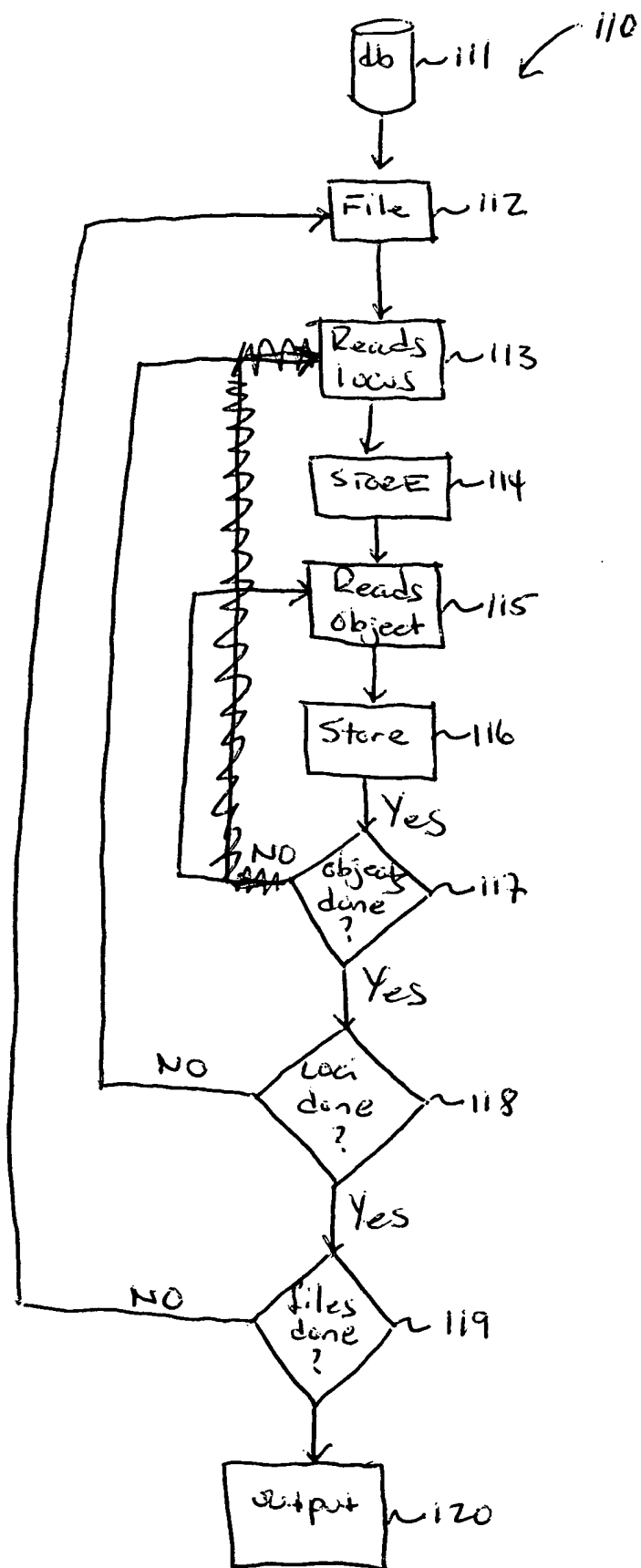


FIG 5

140 Index File

141 Locus Name	142 Unique ID
Name 1	50,462 150
:	:
Last Locus	Total No. Loci

143 File Map

144 File name	145 Number Loci
MUSMS1.SEQ	60,042 151
MUSMS2.SEQ	4,323
:	:
Last file	N 152

Fig 6

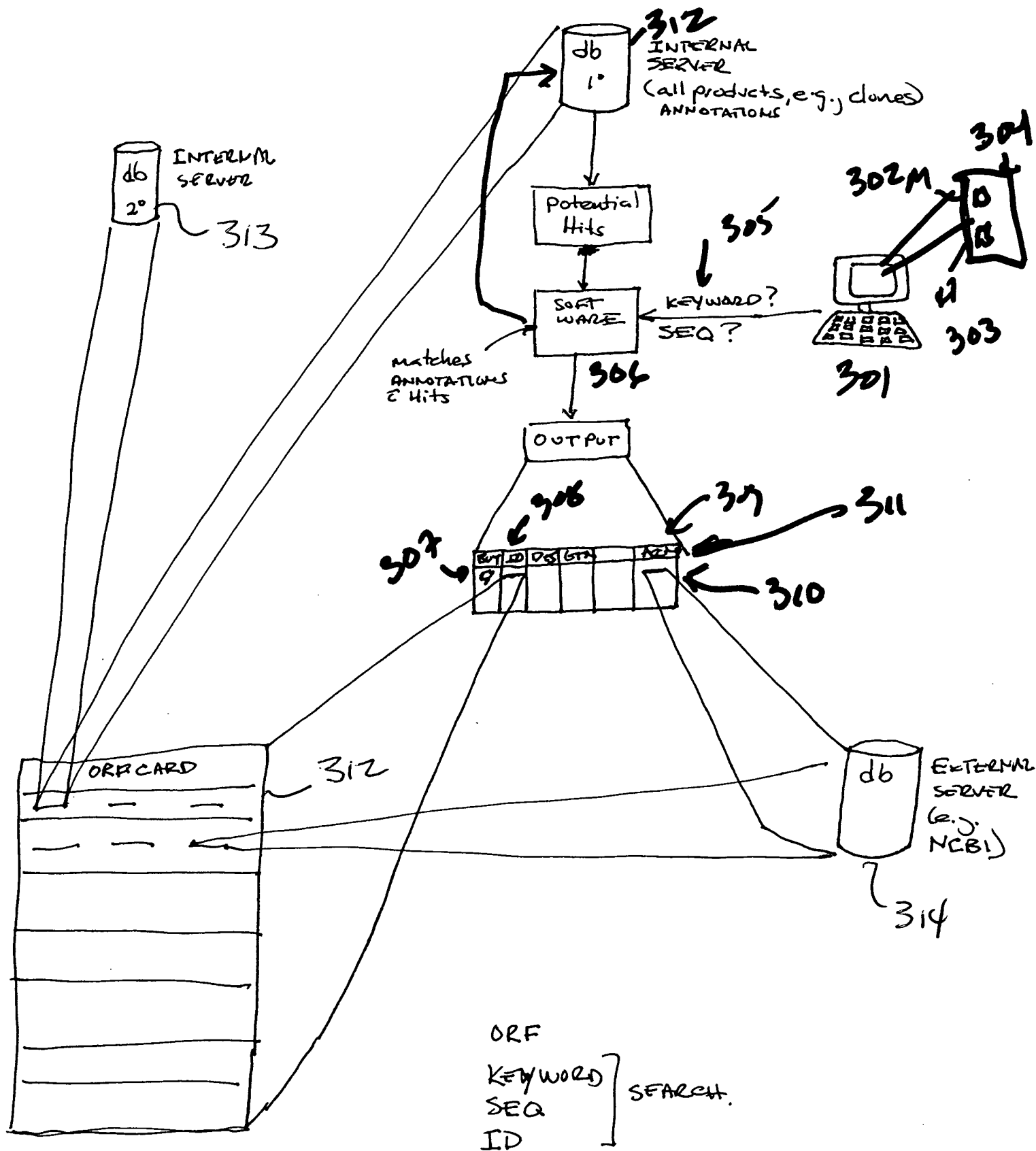


FIG 7

Purchase Flow

Begin

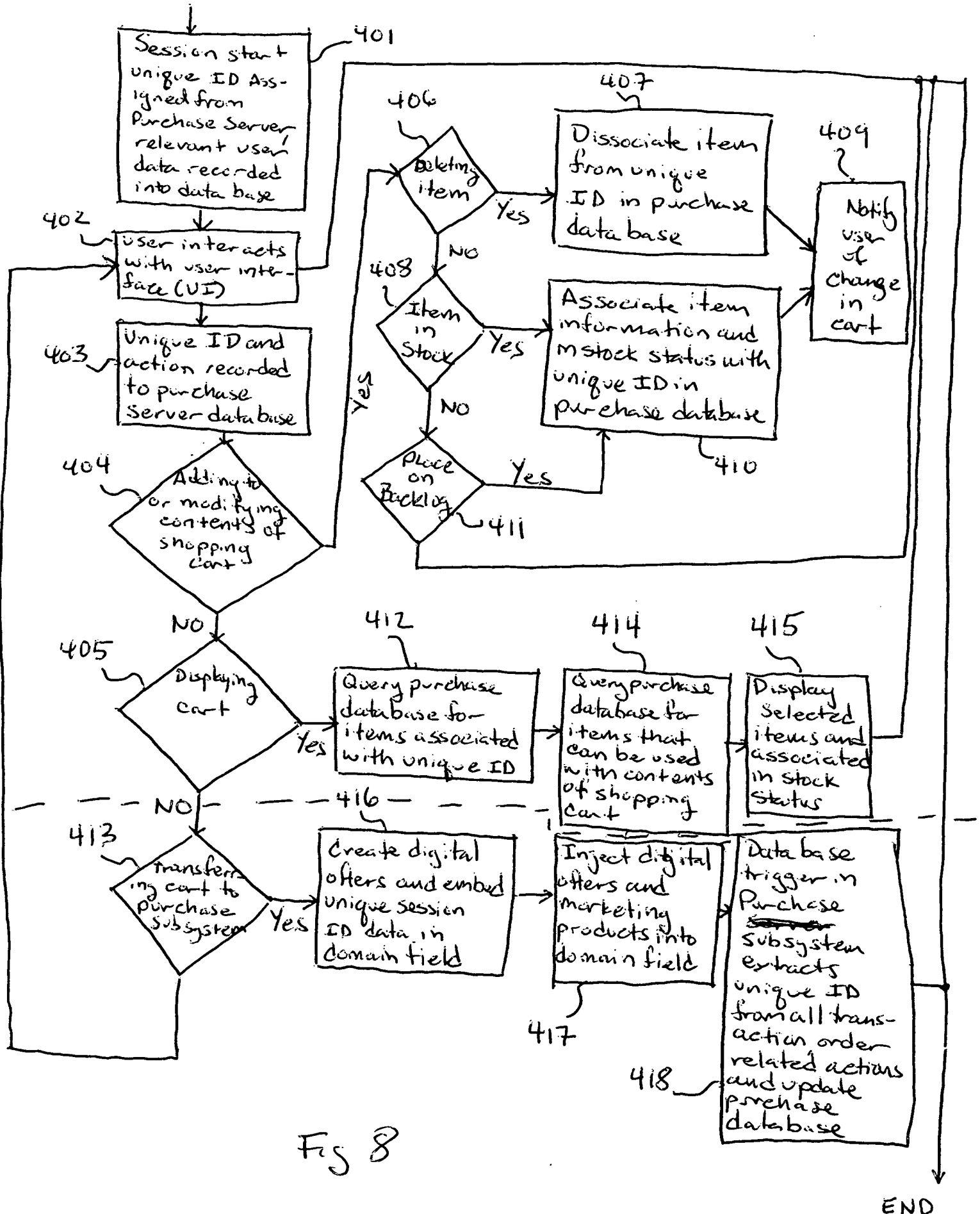


Fig 8

END

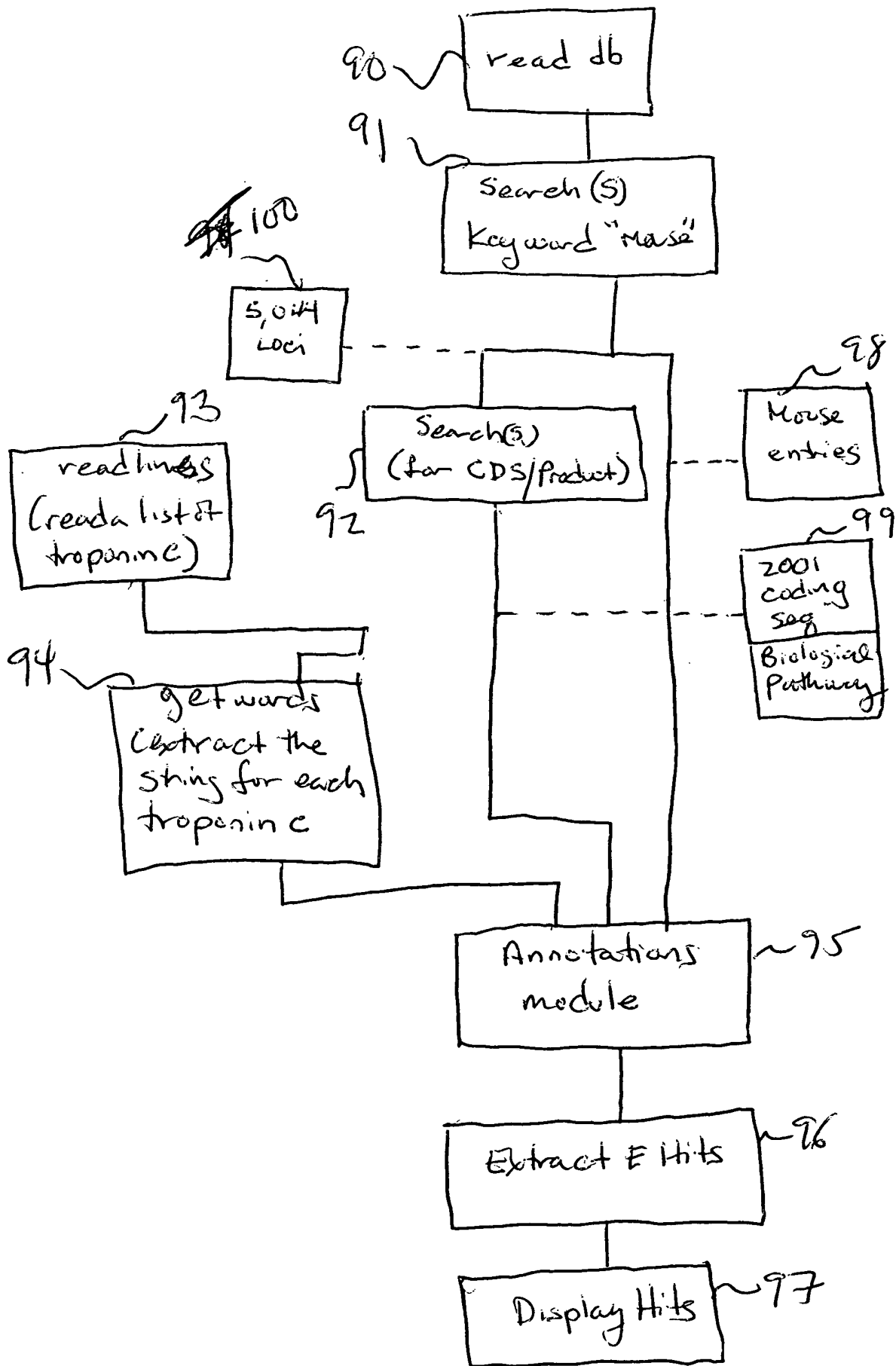


Fig 9

504
↓

Search By ID or Keyword

Search By Sequence

Browse By Gene Ontology

A B C

501a 501b

Select Species: ☐ Human ☐ Mouse

Search By Keyword: Enter Text Below

501 →

502a 502b

Select Species: ☐ Human ☐ Mouse

Search By ID: Enter Text Below

502

Upload text file to search

503

Number of Results per page 25

Bro

~~4~~ F10

600
↙

Search By ID or Keyword
Search By Sequence
Browse By Gene Ontology

Page(s) 1

Records: 1-4 of 4

**** Click on the Clone ID hyper link to view additional clone annotation ****

Buy	Clone ID	Species	Definition	Gene Symbol	Ma Acc
<input checked="" type="checkbox"/>	IOH1903	Human	calbindin 1; calbindin 1, (28kD)	CALB1	NM
<input type="checkbox"/>	IOH5297	Human	Similar to troponin T2, cardiac, clone MGC:3889IMAGE:3612968, mRNA, complete cds.	TNNT2	BC
<input type="checkbox"/>	IOH7359	Human	troponin C2, fast	TNNC2	NM
<input type="checkbox"/>	IOH21526	Human	troponin C, slow (TNNC1), mRNA.	TNNC1	NM

Page(s) 1

Records: 1-4 of 4

Add Clones to Shopping Cart

Fig 11

700

Search By ID or Keyword

Search By Sequence

Browse By Gene Ontology

Page(s) 1

Records: 1-1 of 1

** Click on the Clone ID hyper link to view additional clone annotation **

Buy	Query ID	Clone ID	Species	Definition	Gene Symbol	Matching Accession
		IOH1903	Human	calbindin 1; calbindin 1, (28kD)	CALB1	NM_0045

707

Page(s) 1

Records: 1-1 of 1

Add Clones to Shopping Cart

Fig 12

800

Search By ID or Keyword Search By Sequence Browse By Gene Ontology

Search By Sequence Instructions 801(a) 801(b)

Select Species: ☒ Human ☒ Mouse

Enter sequence below

801 ~

Reset BLAST

Fig 13

900

Your search returned 2 results.

Results are currently sorted by e-value, you may also sort by [collection type](#)

Download all 2 results in [excel](#) format

Buy	Clone ID	Collection	Description
905	IOH1903	Ultimate™ ORF Human Clones	Homo sapiens, calbindin 1; calbindin 1, (28kD)
	IOM18037	Ultimate™ ORF Mouse Clones	Mus musculus, calbindin-28K

901 902 903 904

e-value

Add Clones to Shopping Cart

Clone ID: IOH1903 Accession: NM_004929

Score = 1558.6 bits (786), Expect = 0

Identities = 786/786 (100%), Positives = 786/786 (100%)

Strand = Plus/Plus

Query: 1 ATGGCAGAATCCACCTGCAGTCATCCCTCATCACAGCCTCACAGTTTTT 50
Sbjct: 1 ATGGCAGAATCCACCTGCAGTCATCCCTCATCACAGCCTCACAGTTTTT 50
Query: 51 CGAGATCTGGCTCCATTTTCGACGCTGACGGAAGTGGTTACCTGGAAGGAA 100
Sbjct: 51 CGAGATCTGGCTCCATTTTCGACGCTGACGGAAGTGGTTACCTGGAAGGAA 100
Query: 101 AGGAGCTGCAGAACTTGATCCAGGAGCTCCAGCAGGCGCGAAAGAAGGCT 150
Sbjct: 101 AGGAGCTGCAGAACTTGATCCAGGAGCTCCAGCAGGCGCGAAAGAAGGCT 150
Query: 151 GGATTGGAGTTATCACCTGAAATGAAAACCTTTGTGGATCAGTATGGGCA 200
Sbjct: 151 GGATTGGAGTTATCACCTGAAATGAAAACCTTTGTGGATCAGTATGGGCA 200
Query: 201 AAGAGATGATCGAAAAATAGGAATTGTAGAGTTGGCTCAGTATTACCCA 250
Sbjct: 201 AAGAGATGATCGAAAAATAGGAATTGTAGAGTTGGCTCAGTATTACCCA 250
Query: 251 CAGAAGAGAATTTCTGCTGCTCTTCCGATGCCAGCAGCTGAAGTCTGT 300
Sbjct: 251 CAGAAGAGAATTTCTGCTGCTCTTCCGATGCCAGCAGCTGAAGTCTGT 300
Query: 301 GAGGAATTCATGAAGACATGGAGAAAATATGATACTGACCACAGTGGCTT 350
Sbjct: 301 GAGGAATTCATGAAGACATGGAGAAAATATGATACTGACCACAGTGGCTT 350
Query: 351 CATAGAAACTGAGGAGCTTAAGAACTTTCTAAAGGACCTGCTAGAAAAAG 400
Sbjct: 351 CATAGAAACTGAGGAGCTTAAGAACTTTCTAAAGGACCTGCTAGAAAAAG 400
Query: 401 CAAACAAGACTGTTGATGACACAAAAATTAGCCGAGTATACAGACCTAATG 450
Sbjct: 401 CAAACAAGACTGTTGATGACACAAAAATTAGCCGAGTATACAGACCTAATG 450

Fig 14

Query: 451 CTGAAACTATTTGATTCAAATAATGATGGGAAGCTGGAATTAAGTGAAGAT 500
 Sbjct: 451 CTGAAACTATTTGATTCAAATAATGATGGGAAGCTGGAATTAAGTGAAGAT 500
 Query: 501 GGCCAGGTTACTACCAAGTGCAGGAGAAATTTCTTCTTAAATCCAGGGAA 550
 Sbjct: 501 GGCCAGGTTACTACCAAGTGCAGGAGAAATTTCTTCTTAAATCCAGGGAA 550
 Query: 551 TCAAAATGTGTGGGAAAGAGTTCAATAAGGCTTTTGAGCTGTATGATCAG 600
 Sbjct: 551 TCAAAATGTGTGGGAAAGAGTTCAATAAGGCTTTTGAGCTGTATGATCAG 600
 Query: 601 GACGGCAATGGATACATAGATGAAAATGAACTGGATGCTTTACTGAAGGA 650
 Sbjct: 601 GACGGCAATGGATACATAGATGAAAATGAACTGGATGCTTTACTGAAGGA 650
 Query: 651 TCTGTGCGAGAAGAATAAACAGGATCTGGATATTAATAATATTACAACAT 700
 Sbjct: 651 TCTGTGCGAGAAGAATAAACAGGATCTGGATATTAATAATATTACAACAT 700
 Query: 701 ACAAGAAGAACATAATGGCTTTGTGGATGGAGGGAAGCTGTACCGAAGC 750
 Sbjct: 701 ACAAGAAGAACATAATGGCTTTGTGGATGGAGGGAAGCTGTACCGAAGC 750
 Query: 751 GATCTTGCTCTTATTCTCTGTGCTGGGATAACTAG 786
 Sbjct: 751 GATCTTGCTCTTATTCTCTGTGCTGGGATAACTAG 786

[back to top](#)

Clone ID: IOM18037 Accession: NM_009788

Score = 1090.8 bits (550), Expect = 0
 Identities = 727/786 (92%), Positives = 727/786 (92%)
 Strand = Plus/Plus

Query: 1 ATGGCAGAATCCCACCTGCAGTCATCCCTCATCAGCCTCACAGTTTT 50
 Sbjct: 1 ATGGCAGAATCCCACCTGCAGTCATCTCTGATCAGCCTCACAGTTTT 50
 Query: 51 CGAGATCTGGCTCCATTTGACGCTGACGGAAGTGGTTACCTGGAAGGAA 100
 Sbjct: 51 TGAGATCTGGCTTCATTTGACGCTGACGGAAGTGGTTACCTGGAAGGAA 100
 Query: 101 AGGAGCTGCAGAACTTGATCCAGGAGCTCCAGCAGGCGGAAAGAAGGCT 150
 Sbjct: 101 AGGAGCTGCAGAACTTGATCCAGGAGCTTCTGAGGCGGAAAGAAGGCT 150
 Query: 151 GGATTGGAGTTATCAGCTGAAATGAAAATCTTTGTGGATCAGTATGGGCA 200
 Sbjct: 151 GGATTGGAGCTATCACCAGGAAATGAAATCTTTGTGGATCAATATGGACA 200
 Query: 201 AAGAGATGATGGAATAATAGGAATTTAGAGTTGGCTCACGTATTACCCA 250
 Sbjct: 201 GAGAGATGATGGAATAATAGGAATTTAGAGTTGGCTCACGTATTACCCA 250
 Query: 251 CAGAAGAGAAATTTCTGCTGCTCTTCCGATGCCAGCAGCTGAAGTCTGT 300
 Sbjct: 251 CAGAAGAGAAATTTCTGCTGCTCTTCCGATGCCAGCAACTGAAGTCTGC 300
 Query: 301 GAGGAATTCATGAAGACATGGAGAAAATATGATACTGACCACAGTGGCTT 350
 Sbjct: 301 GAGGAATTCATGAAGACTTGGAGAAAGTATGATACTGACCACAGCGGCTT 350
 Query: 351 CATAGAACTGAGGAGCTTAAGAACTTTCTAAAGGACCTGCTAGAAAAAG 400
 Sbjct: 351 CATCGAAACCGAGGAACTTAAGAACTTTCTAAAGGACCTACTAGAGAAAG 400
 Query: 401 CAAACAAGACTGTTGATGACACAAAATTAGCCGAGTATACAGACCTAATG 450
 Sbjct: 401 CAAACAAGACTGTGGATGATACAAAATAGCAGAGTACACAGACCTCATG 450
 Query: 451 CTGAAACTATTTGATTCAAATAATGATGGGAAGCTGGAATTAAGTGAAGAT 500
 Sbjct: 451 CTGAAACTATTTGATTCAAATAATGACGGAAGCTGGAATTAAGTGAAGAT 500
 Query: 501 GGCCAGGTTACTACCAAGTGCAGGAGAAATTTCTTCTTAAATCCAGGGAA 550
 Sbjct: 501 GGCCAGGTTACTACCAAGTGCAGGAGAAATTTCTTCTTAAATCCAGGGAA 550
 Query: 551 TCAAAATGTGTGGGAAAGAGTTCAATAAGGCTTTTGAGCTGTATGATCAG 600
 Sbjct: 551 TCAAAATGTGTGGGAAAGAGTTCAATAAGGCTTTTGAGTTATATGATCAG 600
 Query: 601 GACGGCAATGGATACATAGATGAAAATGAACTGGATGCTTTACTGAAGGA 650
 Sbjct: 601 GATGGCAACGGATACATAGATGAAAATGAGCTGGATGCTTTGCTGAAAGA 650
 Query: 651 TCTGTGCGAGAAGAATAAACAGGATCTGGATATTAATAATATTACAACAT 700

Fig. 14

Sbjct:	651	TCTGTGTGAGAAGAACAAACAGGAATTGGATATTAACAATATTACTACAT	700
Query:	701	ACAAGAAGAACATAATGGCTTTGTCCGATGGAGGGAAGCTGTACCGAACG	750
Sbjct:	701	ACAAGAAGAACATAATGGCCTTGTCCGATGGAGGGAAGCTGTACCGAAC	750
Query:	751	GATCTTGCTCTTATTCTCTGTGCTGGGGATAACTAG	786
Sbjct:	751	GACCTTGCTCTTATTCTTTCTGCTGGAGACAACTAG	786

[back to top](#)

Results returned in 19 seconds.

Fig. 14

115 ~

Fig 15

[Human]{Mouse}

Gene Ontology

Biological Process

behavior [17] {5}
biological_process unknown [141] {7}
cellular process [1719] {530}
development [377] {107}
physiological processes [2984] {1140}
viral life cycle [8] {2}

Cellular Component

cell [2627] {924}
cellular_component unknown [164] {11}
extracellular [233] {67}
unlocalized [22] {13}
virion {5}

Molecular Function

anticoagulant activity [8] {2}
antioxidant activity [13] {6}
apoptosis regulator activity [39] {14}
binding activity [2058] {787}
cell adhesion molecule activity [48] {13}
chaperone activity [70] {23}
defense/immunity protein activity [67] {12}
enzyme activity [1499] {695}
enzyme regulator activity [137] {49}
molecular_function unknown [203] {41}
motor activity [25] {10}
nutrient reservoir activity [1]
protein stabilization activity [1]
protein tagging activity [3]
signal transducer activity [583] {153}
structural molecule activity [243] {85}
surfactant activity [3]
toxin activity [2]
transcription regulator activity [253] {78}

Fig 16

